



DOCKET NO.: MS302963.1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of

Applicant: **Joshua T. Goodman, et al.**  
Serial No.: **10/601,034**  
Filed: **June 20, 2003**  
For: **OBFUSCATION OF SPAM FILTER**  
Art Unit: **2153**  
Examiner: **Unknown**

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Alexandria, Virginia 22313-1450

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached PTO-1449. A copy of each listed document is enclosed except for: (a) pending applications or (b) those previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. 120:

Serial No.: \_\_\_\_\_  
Filing Date: \_\_\_\_\_

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

(a) \_\_\_ Copy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.

(b) \_\_\_ Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents".

3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):

(a) \_\_\_ Within 3 months of the filing date or date of entry into the National Stage.

(b) X Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 50-1063 for consideration of this Statement.

(c) \_\_\_ After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.

(1) \_\_\_ The required certification is given below, or

(2) \_\_\_ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or

(3) \_\_\_ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 50-1063.

(d) \_\_\_ After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below.

(1) \_\_\_ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(i)(1), or

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4. Certification (if applicable)

(a) \_\_\_ The undersigned hereby certifies that each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.

(b) \_\_\_ The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.

5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-1063.

Respectfully Submitted,


By   
Jeffrey R. Sadlowski  
Reg. No. 47,914

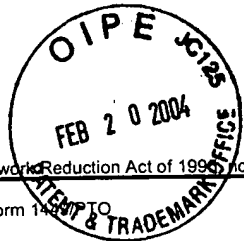
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I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the below date with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Assistant Commissioner for Patents, Alexandria, Virginia 22313-1450.

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Jeffrey R. Sadlowski



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**Complete if Known**

Application Number	10/601,034
Filing Date	June 20, 2003
First Named Inventor	Joshua T. Goodman, et al.
Art Unit	2153
Examiner Name	Unknown
Attorney Docket Number	MS303963.1/MSFTP439US

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6,161,130	12/12/2000	Horvitz, et al.	
		US- 6,023,723	02/08/2000	McCormick, et al.	
		US- 6,003,027	12/14/1999	Prager	
		US- 5,835,087	11/10/1998	Herz, et al.	
		US- 5,638,487	06/10/1997	Chigier	
		US- 5,619,648	04/08/1997	Canale, et al.	
		US- 5,377,354	12/27/1994	Scannel, et al.	
		US- 6,192,360	2/20/2001	Dumais, et al.	
		US- 5,704,017	12/30/1997	Heckerman, et al.	
		US- 6,266,692	07-24-2001	Greenstein	
		US- 6,484,197	11-19-2002	Donohue	
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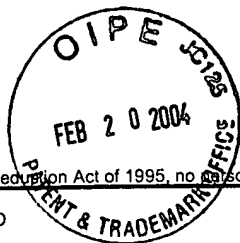
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				
		EP720 333	07/03/1996	A T & T Corp.		
		EP413 537	02/20/1991	Digital Equipment Int.		
		WO96/35994	11/14/1996	Compuserve, Inc.		

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Sheet 2 of 4

**NON PATENT LITERATURE DOCUMENTS**

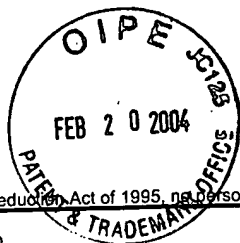
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		CYNTHIA DWORK, et al.; "Pricing Via Processing or Combatting Junk Mail"; Presented at Crypto '92; pp. 1-11	
		THORSTEN JOACHIMS; "Text Categorization with Support Vector Machines: Learning with Many Relevant Features"; LS-8 Report 23, November 1997, 18 pages.	
		DAPHNE KOLLER, et al.; "Hierarchically Classifying Documents Using Very Few Words"; In ICML-97: Proceedings of the Fourteenth International Conference on Machine Learning; San Francisco, CA: Morgan Kaufmann 1997; 9 pages	
		ELLEN SPERTUS; "Smokey: Automatic Recognition of Hostile Messages"; Proceedings of the Conference on Innovative Applications in Artificial Intelligence (IAAI), 1997, 8 pages.	
		HINRICH SCHUTZE, et al.; "A Comparison of Classifiers and Document Representations for the Routing Problem"; Proceedings of the 18th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Seattle, WA, July 9-13, 1995; pp. 229-237	
		YIMING YANG, et al.; "A Comparative Study on Feature Selection in Text Categorization"; School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, and Verity, Inc., Sunnyvale, CA; 9 pages	
		YIMING YANG, et al.; "An Example-Based Mapping Method for Text Categorization and Retrieval"; ACM Transactions on Information Systems, Vol. 12, No. 3, July 1994, pp. 252-277.	
		DAVID D. LEWIS, et al.; "A Comparison of Two Learning Algorithms for Text Categorization"; Third Annual Symposium on Document Analysis and Information Retrieval; April 11-13, 1994; pp. 81-93.	
		MEHRAN SAHAMI; "Learning Limited Dependence Bayesian Classifiers"; In KDD-96: Proceedings of the Second International Conference on Knowledge Discovery and Data Mining; AAAI Press, 1996; Menlo Park, CA; pp. 335-338	
		WILLIAM W. COHEN; "Learning Rules that Classify E-Mail"; In the Proceedings of the 1996 AAAI Spring Symposium on Machine Learning in Information Access. Downloaded from William Cohen's web page: <a href="http://www.research.att.com/nwcohen/pubs.html">http://www.research.att.com/nwcohen/pubs.html</a>	

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Sheet 3 of 4

**NON PATENT LITERATURE DOCUMENTS**

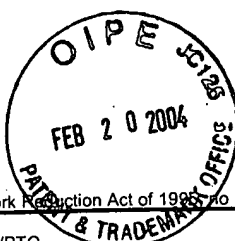
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		MAKOTO IWAYAMA, et al.; "Hierarchical Bayesian Clustering for Automatic Text Classification"; Natural Language; 1995; pp. 1322-1327.	
		DAVID D. LEWIS; "An Evaluation of Phrasal and Clustered Representations on a Text Categorization Task"; 15th Annual International SIGIR '92; Denmark 1992; pp. 37-50.	
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		TOM MITCHELL; "Machine Learning"; Carnegie Mellon University, Bayesian Learning, Chapter 6, pp. 180-184	
		Y. H. Li, et al.; "Classification of Text Documents"; Department of Computer Science and Engineering, Michigan State University, E. Lansing, Michigan, The Computer Journal, Vol. 41, No. 8, 1998; 537-546.	
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		JACOB PALME, et al.; "Issues When Designing Filters In Messaging Systems"; Department of Computer and Systems Sciences, Stockholm University, Royal Institute of Technology, Skeppargarten 73, S-115 30, Stockholm, Sweden, Computer Communications; 1996; pp. 95-101.	
		RICHARD B. SEGAL, et al., "SwiftFile: An Intelligent Assistant for Organizing E-Mail"; IBM Thomas J. Watson Research Center	
		MEHRAN SAHAMI, et al., "A Bayesian Approach to Filtering Junk E-Mail"; Stanford University	

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		DAVID MADIGAN, "Statistics and The War on Spam," Rutgers University, pp. 1-13, 2003	
		PADRAIG CUNNINGHAM, et al., "A Case-Based Approach to Spam Filtering that Can Track Concept Drift," Trinity College, Dublin, Department of Computer Science, 5/13/03	
		MARK ROSEN, "E-mail Classification in the Haystack Framework," Massachusetts Institute of Technology, February, 2003	
		KEVIN R. GEE, Using Latent Semantic Indexing to Filter Spam, Dept. of Computer Science and Engineering, University of Texas-Arlington, 5 pages	
		THORSTEN JOACHIMS, Transductive Inference for Text Classification Using Support Vector Machines, In Proceedings of the 16th International Conference on Machine Learning, 1999, pp. 200-209, San Francisco, USA	

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